

Title (en)  
DATA REPRODUCING APPARATUS

Publication  
**EP 0336624 A3 19910515 (EN)**

Application  
**EP 89302998 A 19890328**

Priority  
JP 7379788 A 19880328

Abstract (en)  
[origin: EP0336624A2] Apparatus for reproducing digital signals comprises means for detecting the recorded data from the medium and generating digital data signals corresponding to the recorded data having a first predetermined bit rate, expansion means for converting the digital data signals from the detecting means into expanded digital signals having a second bit rate lower than the first bit rate, and means coupled to the expansion means for extracting the portions of the expanded digital signals corresponding to synchronous words. Thus, it can be to provide a compact magnetic recording and reproducing apparatus which is more reliable, and less costly to manufacture, utilizing a lower working speed synchronous detector.

IPC 1-7  
**G11B 20/10; G11B 5/008; H04N 5/782; G11B 20/00; H04N 5/92**

IPC 8 full level  
**H04N 5/92** (2006.01); **G11B 5/008** (2006.01); **G11B 20/00** (2006.01); **G11B 20/10** (2006.01); **G11B 20/14** (2006.01); **G11B 27/032** (2006.01); **G11B 27/36** (2006.01); **H04N 5/7826** (2006.01); **H04N 5/928** (2006.01); **H04N 9/81** (2006.01); **H04N 9/82** (2006.01)

CPC (source: EP KR US)  
**G11B 5/0086** (2013.01 - EP US); **G11B 20/0007** (2013.01 - EP US); **G11B 20/10** (2013.01 - EP KR US); **G11B 27/032** (2013.01 - EP US); **G11B 27/36** (2013.01 - EP US); **H04N 5/7826** (2013.01 - EP US); **H04N 5/928** (2013.01 - EP US); **H04N 9/81** (2013.01 - EP US); **H04N 9/8233** (2013.01 - EP US); **G11B 2220/90** (2013.01 - EP US)

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• [X] EP 0052432 A2 19820526 - SONY CORP [JP]  
• [A] DE 3225365 A1 19840112 - BOSCH GMBH ROBERT [DE]  
• [A] US 4520480 A 19850528 - KAWAI KIYOAKI [JP]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 6, no. 234 (E-143) 20 November 1982, & JP-A-57 136 833 (SONY) 24 August 1982  
• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 216 (E-340) 03 September 1985, & JP-A-60 075 143 (FUJITSU) 27 April 1985  
• [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 135 (P-457) 20 May 1986, & JP-A-60 256 985 (MATSUSHITA) 18 December 1985

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